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09/913,595	10/22/2001	Manabu Sasamoto	501.40474X00	3782	
20457 7590 10/29/2007 ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-3873			EXAMINER		
			HENNING, MATTHEW T		
			ART UNIT	PAPER NUMBER	
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*			MAIL DATE	· DELIVERY MODE	
			10/29/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	09/913,595	SASAMOTO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Matthew T. Henning	2131			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period vortice and the second of th	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed I the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 15 A	uaust 2007.				
	action is non-final.				
3) Since this application is in condition for allowar	nce except for formal matters, pro	osecution as to the merits is			
closed in accordance with the practice under E					
Disposition of Claims					
4)⊠ Claim(s) <u>1-18 and 47-55</u> is/are pending in the	application.	•			
4a) Of the above claim(s) is/are withdray					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-18 and 47-55</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers	•				
		•			
9) The specification is objected to by the Examine		ted to but be Everiner			
	10)⊠ The drawing(s) filed on <u>26 December 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.				
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct					
11)☐ The oath or declaration is objected to by the Ex	kaminer. Note the attached Oπice	e Action or form P1O-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	)-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority document	s have been received.				
<ol><li>Certified copies of the priority document</li></ol>					
3. Copies of the certified copies of the prio	rity documents have been receive	ed in this National Stage			
application from the International Bureau	u (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list	of the certified copies not receive	ed.			
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Attachment(s)  1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	/ (PTO-413)			
2) Notice of References Cited (PTO-932)  Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate			
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal F	Patent Application			
Paper No(s)/Mail Date	6)				
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This action is in response to the communication filed on 8/15/2007.

## DETAILED ACTION

## Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/15/2007 has been entered.

## Response to Arguments

Applicants' arguments filed 8/15/2007 have been fully considered but they are not persuasive.

Regarding applicants' argument that the first key information of Chou is stored in the recording medium, the examiner does not find the argument persuasive. Chou teaches in Col. 2 Last Paragraph and Col. 3 Paragraph 5 that the transponder which stores the first key information is separate from the recording medium. Further, both Shear and Chandra render obvious to store the key in the recorder instead of in the recording medium. Further still, Chou does not teach away from doing this, but rather teaches an alternative to storing the key in the recorder. As such, the examiner does not find the argument persuasive.

Regarding applicants' argument that Chou's keys are not recorder specific, the examiner does not find the argument persuasive. This is due to the same reasoning previously provided, and further because in the newly presented combination, the DK<sub>A</sub> is stored in the recorder, and as such is recorder-specific. Additionally, the applicants have stated that Chou's keys are not

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apparatus specific because the key "relates to transient items, not fixed items or characteristics of the apparatus".

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Regarding applicants' argument that in view of the teachings of the prior art, that one would "tend more toward teaching recording the keys onto the recording medium", the examiner does not find the argument persuasive. Shear clearly teaches that storing the keys in the recorder was a known alternative to storing the keys in the recording medium, and as such it would have been obvious to the ordinary person skilled in the art at the time of invention to have interchanged the two known methods of storing the keys. Furthermore, the teachings of Chandra also support the obviousness of storing the keys in the recorder.

Regarding applicants' argument that in the combination the second key information would not be stored in the recording medium, the examiner does not find the argument persuasive. This is because the relied upon second key information is not a key encrypting key, as discussed in Shear, but rather is a frame number of the frame of content which is recorded. It is taught by Chou to record the frame number with the recorded frame. There are no teachings relied upon that would suggest recording the frame number in the recorder. This would make no sense as DVD video contains many frames and storing a random number for each frame of each DVD recorded would be overwhelming at best, and thus one of ordinary skill in the art would not be motivated to store the frame numbers in the recorder instead of the recording medium.

Regarding applicants' argument that in Applicant's invention, transmission data and a recorded data adopt different encryption methods from one another, the examiner does not find the argument persuasive. This limitation has not been claimed and as such has not been further addressed by the examiner.

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Claims 1-18, and 47-55 have been examined and 19-46 have been cancelled. 1 All objections and rejections not set forth below have been withdrawn. 2 Claim Objections 3 4 Claims 1-18, and 47-55 are objected to because of the following informalities: The independent claims recite "and decrypts to an original data", which is awkwardly worded as it 5 6 lacks a subject for the decrypts. The examiner will assume that it was meant to read "and decrypts the digital signal into an original data". Appropriate correction is required. 7 Claim Rejections - 35 USC § 103 8 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all 9 10 obviousness rejections set forth in this Office action: 11 A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter 12 sought to be patented and the prior art are such that the subject matter as a whole would have 13 been obvious at the time the invention was made to a person having ordinary skill in the art to 14 which said subject matter pertains. Patentability shall not be negatived by the manner in which 15 the invention was made. 16 17 Claims 1-6 49 aueoa are rejected under 35 U.S.C. 103(a) as being unpatentable over 18 19. Chou (US Patent Number 6,167,136), in view of Muratani et al. (US Patent Number 6,061,451) hereinafter referred to as Muratani, and further in view of Shear et al. (Patent Application 20 Publication 2001/0042043) hereinafter referred to as Shear, and further in view of Wonfor et al. 21 (US Patent Number 6,381,747) hereinafter referred to as Wonfor. 22 Regarding claim 1, Chou disclosed a digital signal recorder for recording a digital signal 23 on a removable recording medium unit including a recording medium (See Chou Abstract and 24 Fig. 2 Data Medium such as DVD's), comprising: first key information generation unit to 25

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generate at least one item of first key information (See Chou Col. 6 Lines 34-38 DK<sub>A</sub>); second 1 key information generation unit to generate at least one item of second key information (See 2 Chou Col. 6 Lines 39-43 and Col. 7 Paragraph 1; i); key generation unit which receives said 3 both of said first and second key information generated by said first key information generation 4 unit and said second key information generation unit and performs a prescribed arithmetic 5 operation thereon to generate a key (See Chou Col. 6 Lines 44-58); an encryption circuit which 6 7 receives said key and an original data and encrypts said original data with said key (See Chou 8 Col. 6 Lines 59-65), and outputs the resulting encrypted digital signal in a case where said digital signal needs copy protection (See Chou Col. 6 Lines 59-65); and a recording circuit which 9 records, onto said removable recording medium unit, at least one of said at least one item of 10 second key information generated by said second key information generation unit, together with 11 said encrypted digital signal in a case where said digital signal needs copy protection (See Chou 12 Col. 6 Line 66 – Col. 7 Line 5), but Chou failed to disclose a decrypting circuit which receives a 13 digital signal encrypted for transmission and decrypts the digital signal into the original data, 14 recording said digital signal without encryption in a case where said digital signal needs no copy 15 protection, or that the first key information is recorder-specific key information wherein said first 16 key information as said recorder specific key information is not recorded on any part of said 17 removable recording medium unit. However, Chou did disclose that the recording medium 18 could be a DVD, and that the recording medium is separate from the chip disclosed as storing the 19 first key information (DKA) (See Chou Fig. 2, Fig. 4 and Col. 2 Last Paragraph). 20 Muratani teaches a system in which a network scrambles video data for transmission, and 21

transmits the data to a receiver, which descrambles the scrambled video data to get video data

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1 (original data) which is then recorded onto DVD for later viewing (See Muratani Col. 17

- 2 Paragraphs 2-5).
- 3 Shear teaches a that in a system similar to the system of Chou, alternative to storing key
- 4 encrypting keys on a recording medium, the key encrypting keys can be stored in the content
- 5 player (See Shear Paragraphs 0218-0219).
- Wonfor teaches that not all data needs to be copy protected and teaches a system that
- 7 turns off copy protection when it is not needed (See Wonfor Col. 2 Line 66 Col. 3 Line 7 and
- 8 Col. 12 Table 2).
- 9 It would have been obvious to the ordinary person skilled in the art at the time of
- invention to employ the teachings of Muratani in the DVD copy protection system of Chou, by
- using the system of Chou to encrypt and protect the digital data recorded to DVD by the system
- of Muratani. This would have been obvious because the ordinary person skilled in the art would
- have been motivated to protect the recorded digital data from being illicitly copied.
- It further would have been obvious to the ordinary person skilled in the art at the time of
- invention to employ the teachings of Shear in the recording/playback device of Chou and
- Muratani, by storing the secret deciphering key (DK<sub>A</sub>) in a secure memory of the optical disk
- player. This would have been obvious because the ordinary person skilled in the art would have
- been motivated to restrict playback to only those devices which contain the correct deciphering
- 19 key.
- It further would have been obvious to the ordinary person skilled in the art at the time of
- 21 invention to employ the teachings of Wonfor in the copy protection system of Chou by only
- 22 scrambling the data that needed copy protection and not scrambling the data that didn't need

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copy protection. This would have been obvious because the ordinary person would have been motivated to prevent unnecessary processing to copy protect data that did not need it.

Regarding claim 49, Chou disclosed a digital signal recorder for recording a digital signal on a removable recording medium unit including a recording medium (See Chou Abstract and Fig. 2 Data Medium such as DVD's), comprising: first key information generation unit to generate at least one item of first key information (See Chou Col. 6 Lines 34-38 DK<sub>A</sub>); second key information generation unit to generate at least one item of second key information (See Chou Col. 6 Lines 39-43 and Col. 7 Paragraph 1; i); key generation unit which receives said both of said first and second key information generated by said first key information generation unit and said second key information generation unit and performs a prescribed arithmetic operation thereon to generate a key (See Chou Col. 6 Lines 44-58); an encryption circuit which receives said key and an original data and encrypts said original data with said key (See Chou Col. 6 Lines 59-65), and outputs the resulting encrypted digital signal in a case where said digital signal needs copy protection (See Chou Col. 6 Lines 59-65); and a recording circuit which records, onto said removable recording medium unit, at least one of said at least one item of second key information generated by said second key information generation unit, together with said encrypted digital signal in a case where said digital signal needs copy protection (See Chou Col. 6 Line 66 – Col. 7 Line 5), but Chou failed to disclose a decrypting circuit which receives a digital signal encrypted for transmission and decrypts the digital signal into the original data, recording said digital signal without encryption in a case where said digital signal needs no copy protection, or that the first key information is recorder-specific key information wherein said first key information as said recorder specific key information is not carried with any part of the

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1 removable recording medium unit. However, Chou did disclose that the recording medium

2 could be a DVD, and that the recording medium is separate from the chip disclosed as storing the

first key information (DK<sub>A</sub>) (See Chou Fig. 2, Fig. 4 and Col. 2 Last Paragraph).

Muratani teaches a system in which a network scrambles video data for transmission, and transmits the data to a receiver, which descrambles the scrambled video data to get video data (original data) which is then recorded onto DVD for later viewing (See Muratani Col. 17 Paragraphs 2-5).

Shear teaches a that in a system similar to the system of Chou, alternative to storing key encrypting keys on a recording medium, the key encrypting keys can be stored in the content player (See Shear Paragraphs 0218-0219).

Wonfor teaches that not all data needs to be copy protected and teaches a system that turns off copy protection when it is not needed (See Wonfor Col. 2 Line 66 – Col. 3 Line 7 and Col. 12 Table 2).

It would have been obvious to the ordinary person skilled in the art at the time of invention to employ the teachings of Muratani in the DVD copy protection system of Chou, by using the system of Chou to encrypt and protect the digital data recorded to DVD by the system of Muratani. This would have been obvious because the ordinary person skilled in the art would have been motivated to protect the recorded digital data from being illicitly copied.

It further would have been obvious to the ordinary person skilled in the art at the time of invention to employ the teachings of Shear in the recording/playback device of Chou and Muratani, by storing the secret deciphering key (DK<sub>A</sub>) in a secure memory of the optical disk player. This would have been obvious because the ordinary person skilled in the art would have

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been motivated to restrict playback to only those devices which contain the correct deciphering
 key.

It further would have been obvious to the ordinary person skilled in the art at the time of invention to employ the teachings of Wonfor in the copy protection system of Chou by only scrambling the data that needed copy protection and not scrambling the data that didn't need copy protection. This would have been obvious because the ordinary person would have been motivated to prevent unnecessary processing to copy protect data that did not need it.

Regarding claim 2, Chou, Muratani, Shear, and Wonfor disclosed that said second key information generation unit generates said second key information by using a random number generator (See Chou Col. 7 Paragraph 1), and said digital signal has a packet format of a prescribed length (See Chou Col. 6 Lines 17-23).

Regarding claim 3, Chou, Muratani, Shear, and Wonfor disclosed that said second key information generation unit generates said second key information by using a random number generator (See Chou Col. 7 Paragraph 1), the second key information generation unit has a function for updating said at least one item of said second key information at a prescribed time interval (See Chou Col. 5 Lines 34-39, Col. 6 Lines 59-61 and 7 Lines 2-5); and said recording circuit has a function for recording information capable of identifying timing when said second key information generation unit updates said key information (See Chou Col. 5 Lines 43-48).

Regarding claim 4, Chou, Muratani, Shear, and Wonfor disclosed that said digital signal has a packet format of a prescribed length (See Chou Col. 5 Lines 34-39); and said recording circuit has a function for adding identifying information capable of identifying timing where said second key information generation unit updates said second key information, and where said

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1 identifying information is added to packets of said digital signal and recorded on said removable

recording medium unit (See Chou Col. 5 Paragraph 4 and Col. 6 Paragraph 5 and Col. 7

3 Paragraph 1).

Regarding claim 5, Chou, Muratani, Shear, and Wonfor disclosed that said second key information generation unit generates said second key information by using a random number generator (See Chou Col. 7 Paragraph 1), said encryption circuit has a function capable of selecting between a first function for encrypting and outputting said digital signal, and a second function for outputting said digital signal as is without encryption (See the rejection of claim 1 above), and said recording circuit has a function for recording, in a prescribed area on said removable recording medium unit, encryption flag information indicating whether or not said digital signal is encrypted, and, when not encrypted, not recording said second key information (See Wonfor Col. 8 Lines 17-23 and Table 2).

Regarding claim 6, Chou, Muratani, Shear, and Wonfor disclosed that said digital signal has a packet format of a prescribed length (See Chou Col. 5 Lines 34-39); and said recording circuit has a function for adding encryption flag information indicating whether or not said digital signal is encrypted, to packets of said digital signal, and a function for recording on said removable recording medium unit (See Wonfor Col. 8 Lines 17-23 and Table 2).

Claims 7-12, and 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Chou, Muratani, Shear, and Wonfor, as applied to claim 1 above, and further in view of Kim (US Patent Number 6,466,733).

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Regarding claim 7, the combination of Chou, Muratani, Shear, and Wonfor disclosed a digital signal recorder in which a digital signal of a packet format of a prescribed length is input comprising: a decrypting circuit which receives a digital signal encrypted for transmission and decrypts to an original signal; first key information generation unit to generate at least one item of first key information which is recorder specific key information; second key information generation unit to generate at least one item of second key information; key generation unit to receive both of said first and second key information generated by said first key information generation unit and said second key information generation unit, and perform a prescribed arithmetic operation to generate a key; an encryption circuit which receives said key and said original signal, encrypts said original signal with said key and outputs the resulting encrypted digital signal in a case where said digital signal needs copy protection; and a recording circuit which records, onto said removable recording medium unit (data medium), at least one of said at least on item of second key information generated by said second key information generation unit, together with said encrypted digital signal in a case where said digital signal needs copy protection, and records said digital signal without encryption in a case where said digital signal needs no copy protection, and wherein said first key information as said recorder-specific key information, is not recorded on any part of said removable recording medium unit (See rejection of claims 1-2 above), but failed to disclose dividing the signal into other prescribed lengths; a synchronization signal, recording information signal, auxiliary information signal, and first error correction code are added thereto to define a block format; one track is formed by a prescribed number of blocks thus made; a second error correction code is added in units of n tracks (where n is an integer 1 or greater); said second error correction code is also divided and said first error

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1 correction code is added thereto to constitute a block format; and said tracks are recorded on said
2 removable recording medium unit.

Kim teaches a method for recording a digital transport stream by creating tracks from video packets and providing three error correction codes to each track (See Kim Figs. 2, 3, and 5 and Col. 6 Paragraphs 4-7 and Col. 7 Paragraphs 3-4).

It would have been obvious to the ordinary person skilled in the art at the time of invention to employ the teachings of Kim in the recorder of Chou, Muratani, Shear, and Wonfor by storing the encrypted packets in the ECC block format of Kim. This would have been obvious because the ordinary person skilled in the art would have been motivated to protect the stored programs against errors.

Regarding claim 8, see the rejection of claim 1 above wherein it would have been obvious to store the frame identification number in an auxiliary storage area because the frame identification number is auxiliary data.

Regarding claim 9, see the rejection of claim 3 above.

Regarding claim 10, Chou, Muratani, Shear, Wonfor, and Kim disclosed that timing information was included in the stored block data (see Kim Col. 5 Paragraph 6).

Regarding claim 11, Chou, Muratani, Shear, Wonfor, and Kim disclosed that timing information was stored in an auxiliary section (See Kim Col. 6 Paragraph 4 and Col. 7 Paragraph 3).

Regarding claim 12, Chou, Muratani, Shear, Wonfor, and Kim disclosed adding timing information to the blocks identifying the timing of the packets (See Kim Col. 2 Lines 54-57)

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Regarding claim 13, Chou, Muratani, Shear, Wonfor, and Kim disclosed that the frame 1 identification number was updated every frame and there was at least one frame per track (See 2 Chou Col. 5 Paragraph 4). Therefore, the frame identification number was updated for every 3 4 track. 5 Regarding claim 14, see the rejection of claim 7 above. 6 Regarding claim 15-17, see the rejection of claims 5-6 above. 7 Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over the combination 8 of Chou, Muratani, Shear, Wonfor, and Kim, as applied to claim 14 above, and further in view of 9 Yuval et al. (US Patent Number 5,586,186) hereinafter referred to as Yuval. The combination of Chou, Muratani, Shear, Wonfor, and Kim disclosed encrypting 10 certain data and not other data, (See the rejection of claim 7 above), but failed to disclose 11 switching to determine whether or not to encrypt every n tracks. 12 13 Yuval teaches that for efficiency, only every nth track should be encrypted (See Yuval Col. 6 Lines 13-23). 14 It would have been obvious to the ordinary person skilled in the art at the time of 15 invention to employ the teachings of Yuval in the copy protection system of Chou, Muratani, 16 Shear, Wonfor, and Kim by encrypting every nth track. This would have been obvious because 17 the ordinary person skilled in the art would have been motivated to make the copy protection 18 system more efficient in both the encryption and decryption. 19 Claims 47, 50-51, and 54-55 are rejected under 35 U.S.C. 103(a) as being unpatentable 20 over the combination of Chou, Muratani, Wonfor, and Shear as applied to claim 49 above, and 21

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1 further in view of Chandra et al. (US Patent Number 4,814,140) hereinafter referred to as

2 Chandra.

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Chou, Muratani, Wonfor, and Shear taught a digital signal recorder for recording a digital signal on a removable recording medium unit including a recording medium, comprising: first key information generation unit to generate at least one item of first key information which is apparatus-specific key information; second key information generation unit to generate at least one item of second key information; key generation unit which receives both of said first and second key information generated by said first key information generation unit and said second key information generation unit, and performs a prescribed arithmetic operation thereon to generate a key; an encrypting circuit which receives said key and said digital signal and encrypts said digital signal with said key, and outputs the resulting encrypted digital signal, in a case where said digital signal needs copy protection; and a recording circuit which records, onto said removable recording medium unit, at least one of said at least one item of second key information generated by said second key information generation unit, together with said encrypted digital signal in a case where said digital signal needs copy protection, and records said digital signal without encryption in a case where said digital signal needs no copy protection, wherein a copy of said first key information is not carried with any part of the removable recording medium unit (See the rejection of claim 49 above), but failed to disclose pre-storing the first key information in said recorder at the time the recorder was manufactured. Chandra teaches that in order to provide an apparatus with the right to execute encrypted

content, the decryptor can be provided with the key decryption key during manufacture (See Chandra Col. 7 Lines 7-13).

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It would have been obvious to the ordinary person skilled in the art at the time of invention to employ the teachings of Chandra in the encrypted content system by providing the key encryption/decryption key to the player during manufacture. This would have been obvious because the ordinary person skilled in the art would have been motivated to provide the player with the right to execute the content.

Regarding claims 50-51 and 54-55, Chou, Muratani, Wonfor, Shear, and Chandra disclosed that said first key information is recorder-specific key information, in that said first key information is derived from an attribute of said digital signal recorder (See the teachings of Chandra, wherein the first key information is retrieved from the recorder [derived from an attribute of the recorder]), and is unrelated to any attribute of any part of said removable recording medium unit (See the rejection of claim 47 above wherein DK<sub>A</sub> is pre-stored in the recorder prior to recording to any medium).

Claim 48, and 52-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Chou, Muratani, Shear, Wonfor, and Kim as applied to claim 7 above, and further in view of Chandra.

Chou, Muratani, Shear, Wonfor, and Kim taught a digital signal recorder for recording a digital signal on a removable recording medium unit including a recording medium, comprising: first key information generation unit to generate at least one item of first key information which is apparatus-specific key information; second key information generation unit to generate at least one item of second key information; key generation unit which receives both of said first and second key information generated by said first key information generation unit and said second key information generation unit, and performs a prescribed arithmetic operation thereon to

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generate a key; an encrypting circuit which receives said key and said digital signal and encrypts 1 said digital signal with said key, and outputs the resulting encrypted digital signal, in a case 2 where said digital signal needs copy protection; and a recording circuit which records, onto said 3 4 removable recording medium unit, at least one of said at least one item of second key information generated by said second key information generation unit, together with said 5 encrypted digital signal in a case where said digital signal needs copy protection, and records 6 7 said digital signal without encryption in a case where said digital signal needs no copy 8 protection, wherein a copy of said first key information is not carried with any part of the 9 removable recording medium unit (See the rejection of claim 7 above), but failed to disclose pre-10 storing the first key information in said recorder at the time the recorder was manufactured. Chandra teaches that in order to provide an apparatus with the right to execute encrypted 11 content, the decryptor can be provided with the key decryption key during manufacture (See 12 13 Chandra Col. 7 Lines 7-13). It would have been obvious to the ordinary person skilled in the art at the time of 14 invention to employ the teachings of Chandra in the encrypted content system by providing the 15 key encryption/decryption key to the player during manufacture. This would have been obvious 16 because the ordinary person skilled in the art would have been motivated to provide the player 17 18 with the right to execute the content. Regarding claims 52-53, Chou, Muratani, Wonfor, Shear, Kim and Chandra disclosed 19 that said first key information is recorder-specific key information, in that said first key 20 information is derived from an attribute of said digital signal recorder (See the teachings of 21

Chandra, wherein the first key information is retrieved from the recorder [derived from an

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attribute of the recorder]), and is unrelated to any attribute of any part of said removable

2 recording medium unit (See the rejection of claim 47 above wherein DKA is pre-stored in the

recorder prior to recording to any medium).

4 Conclusion

Claims 1-18, and 47-55 have been rejected.

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

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Pexravian et al. (US Patent Number 6,363,154) teaches a communication system in which a secret key and a random number are hashed to create a working key which is used to encrypt data.

Ishiguro (US Patent Number 5,796,839) teaches a system which uses a working key to encrypt data to be stored on a recording medium in such a way that without knowledge of the master key the data is not recoverable in any way other than brute force.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to 11 whose telephone number is (571) 272-3790. The examiner can normally be reached on M-F 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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10/23/2007

1	Information regarding the status of an application may be obtained from the Patent
2	Application Information Retrieval (PAIR) system. Status information for published applications
3	may be obtained from either Private PAIR or Public PAIR. Status information for unpublished
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13	V AYAZ SHEIKH
15	/Matthew Henning/ SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100
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